

Proudění

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File Information

Title: [VD Ludkovice](#)
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File Name: [VD Ludkovice.gsz](#)
Directory: [C:\Data Tomáš\Ludkovice\2011_Stabilita při vypouštění\](#)

Project Settings

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Mass(M) Units: [g](#)
Mass Flux Units: [g/sec](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

Analysis Settings

MBH_285.45

Kind: [SEEP/W](#)
Method: [Steady-State](#)
Settings
 Include Air Flow: [No](#)
Control
 Apply Runoff: [Yes](#)
Convergence
 Convergence Type: [Gauss Point K](#)
 Convergence Settings
 Maximum Number of Iterations: [500](#)
 Tolerance: [0.01](#)
 Maximum Change in K: [0.1](#)
 Rate of Change in K: [1.02](#)
 Minimum Change in K: [0.0001](#)
 Equation Solver: [Parallel Direct](#)
 Potential Seepage Max # of Reviews: [10](#)
Time
 Starting Time: [0 sec](#)
 Duration: [0 sec](#)
 Ending Time: [0 sec](#)

Materials

Kamenná sypanina

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Stabilizační část](#)

Vol. WC. Function: [Stabilizační část](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Kamenitopísčítá suť

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Kamenitopísčítá suť](#)

Vol. WC. Function: [Kamenitopísčítá suť](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Těsnící jádro _jílovitá hlína

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Jádro](#)

Vol. WC. Function: [Jádro](#)

K-Ratio: [0.1](#)

K-Direction: [0 °](#)

Zemina z výkopů

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Stabilizační část_střed](#)

Vol. WC. Function: [Stabilizační část_střed](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Filtry

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Filtr](#)

Vol. WC. Function: [Filtr](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Náplavová hlína v podloží hráze

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Náplavové hlíny](#)

Vol. WC. Function: [Stabilizační část_střed](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Hlinité štěrky

Model: [Saturated / Unsaturated](#)

Hydraulic

K-Function: [Podložní štěrky](#)

Vol. WC. Function: [Stabilizační část_střed](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Jílovce, slínovce, pískovce

Model: [Saturated Only](#)

Hydraulic

K-Sat: [4e-005 m/sec](#)

Volumetric Water Content: [0.2 m³/m³](#)

Mv: [0 /kPa](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Beton

Model: [\(none\)](#)

Injekční clona

Model: [Saturated Only](#)

Hydraulic

K-Sat: [5e-007 m/sec](#)

Volumetric Water Content: [0 m³/m³](#)

Mv: [0 /kPa](#)

K-Ratio: [1](#)

K-Direction: [0 °](#)

Boundary Conditions

Zero Pressure

Type: [Pressure Head 0](#)

MBH=285,55

Type: [Head \(H\) 285.55](#)

K Functions

Stabilizační část_střed

Model: [Data Point Function](#)

Function: [X-Conductivity vs. Pore-Water Pressure](#)

Curve Fit to Data: [100 %](#)

Segment Curvature: [100 %](#)

K-Saturation: [5e-005](#)

Data Points: [Matric Suction \(kPa\), X-Conductivity \(m/sec\)](#)

Data Point: [\(0.01, 5e-005\)](#)

Data Point: [\(0.018329807, 4.9981554e-005\)](#)

Data Point: (0.033598183, 4.9943474e-005)
Data Point: (0.061584821, 4.9865152e-005)
Data Point: (0.11288379, 4.9704032e-005)
Data Point: (0.20691381, 4.9372668e-005)
Data Point: (0.37926902, 4.8692725e-005)
Data Point: (0.6951928, 4.7303408e-005)
Data Point: (1.274275, 4.4496069e-005)
Data Point: (2.3357215, 3.8997431e-005)
Data Point: (4.2813324, 2.9112417e-005)
Data Point: (7.8475997, 1.5152884e-005)
Data Point: (14.384499, 3.9693642e-006)
Data Point: (26.366509, 4.5217569e-007)
Data Point: (48.329302, 2.9903611e-008)
Data Point: (88.586679, 1.5983247e-009)
Data Point: (162.37767, 8.0130903e-011)
Data Point: (297.63514, 3.9470874e-012)
Data Point: (545.55948, 1.93511e-013)
Data Point: (1000, 9.4752582e-015)

Estimation Properties

Volume Water Content Function: Stabilizační část_střed
Hydraulic K Sat: 5e-005 m/sec
Hyd. K-Function Estimation Method: Van Genuchten Function
Maximum: 1000
Minimum: 0.01
Num. Points: 20
Residual Water Content: 0.1 m³/m³

Jádro

Model: Data Point Function
Function: X-Conductivity vs. Pore-Water Pressure
Curve Fit to Data: 100 %
Segment Curvature: 100 %
K-Saturation: 1.53e-009
Data Points: Matric Suction (kPa), X-Conductivity (m/sec)
Data Point: (0.01, 1.53e-009)
Data Point: (0.018329807, 1.5290618e-009)
Data Point: (0.033598183, 1.5271231e-009)
Data Point: (0.061584821, 1.5239983e-009)
Data Point: (0.11288379, 1.5189097e-009)
Data Point: (0.20691381, 1.5104364e-009)
Data Point: (0.37926902, 1.4962028e-009)
Data Point: (0.6951928, 1.4722724e-009)
Data Point: (1.274275, 1.431938e-009)
Data Point: (2.3357215, 1.3651282e-009)
Data Point: (4.2813324, 1.2568235e-009)
Data Point: (7.8475997, 1.0888454e-009)
Data Point: (14.384499, 8.4921885e-010)
Data Point: (26.366509, 5.5273625e-010)
Data Point: (48.329302, 2.6823323e-010)
Data Point: (88.586679, 8.6785502e-011)
Data Point: (162.37767, 1.864079e-011)
Data Point: (297.63514, 3.0706558e-012)

Data Point: (545.55948, 4.3461001e-013)

Data Point: (1000, 3.9976401e-014)

Estimation Properties

Volume Water Content Function: Jádno

Hydraulic K Sat: 1.53e-009 m/sec

Hyd. K-Function Estimation Method: Fredlund-Xing Function

Maximum: 1000

Minimum: 0.01

Num. Points: 20

Residual Water Content: 0.28 m³/m³

Stabilizační část

Model: Data Point Function

Function: X-Conductivity vs. Pore-Water Pressure

Curve Fit to Data: 100 %

Segment Curvature: 100 %

K-Saturation: 0.01

Data Points: Matric Suction (kPa), X-Conductivity (m/sec)

Data Point: (0.01, 0.01)

Data Point: (0.018329807, 0.0099995996)

Data Point: (0.033598183, 0.0099975313)

Data Point: (0.061584821, 0.0099868313)

Data Point: (0.11288379, 0.0099316017)

Data Point: (0.20691381, 0.0096448798)

Data Point: (0.37926902, 0.0082372175)

Data Point: (0.6951928, 0.0035799522)

Data Point: (1.274275, 0.0001906393)

Data Point: (2.3357215, 1.57114e-006)

Data Point: (4.2813324, 8.313506e-009)

Data Point: (7.8475997, 4.1674402e-011)

Data Point: (14.384499, 2.0767812e-013)

Data Point: (26.366509, 1.0342933e-015)

Data Point: (48.329302, 5.1507216e-018)

Data Point: (88.586679, 2.5650119e-020)

Data Point: (162.37767, 1.2773513e-022)

Data Point: (297.63514, 6.3610945e-025)

Data Point: (545.55948, 3.1677818e-027)

Data Point: (1000, 1.5777688e-029)

Estimation Properties

Volume Water Content Function: Stabilizační část

Hydraulic K Sat: 0.01 m/sec

Hyd. K-Function Estimation Method: Van Genuchten Function

Maximum: 1000

Minimum: 0.01

Num. Points: 20

Residual Water Content: 0.01 m³/m³

Filtr

Model: Data Point Function

Function: X-Conductivity vs. Pore-Water Pressure

Curve Fit to Data: 100 %

Segment Curvature: 44 %

K-Saturation: 0.001

Data Points: Matric Suction (kPa), X-Conductivity (m/sec)

Data Point: (0.01, 0.001)
Data Point: (0.018329807, 0.00099821586)
Data Point: (0.033598183, 0.00099409055)
Data Point: (0.061584821, 0.00098459491)
Data Point: (0.11288379, 0.00096279897)
Data Point: (0.20691381, 0.00091320988)
Data Point: (0.37926902, 0.00080395141)
Data Point: (0.6951928, 0.00058642973)
Data Point: (1.274275, 0.00026955876)
Data Point: (2.3357215, 5.120454e-005)
Data Point: (4.2813324, 3.803608e-006)
Data Point: (7.8475997, 1.7280809e-007)
Data Point: (14.384499, 6.7182877e-009)
Data Point: (26.366509, 2.5095579e-010)
Data Point: (48.329302, 9.284206e-012)
Data Point: (88.586679, 3.4268371e-013)
Data Point: (162.37767, 1.2641724e-014)
Data Point: (297.63514, 4.6629758e-016)
Data Point: (545.55948, 1.7199142e-017)
Data Point: (1000, 6.3437675e-019)

Estimation Properties

Volume Water Content Function: Filtr

Hydraulic K Sat: 0.001 m/sec

Hyd. K-Function Estimation Method: Van Genuchten Function

Maximum: 1000

Minimum: 0.01

Num. Points: 20

Residual Water Content: 0.05 m³/m³

Kamenitopísčitá suť

Model: Data Point Function

Function: X-Conductivity vs. Pore-Water Pressure

Curve Fit to Data: 100 %

Segment Curvature: 100 %

K-Saturation: 0.001

Data Points: Matric Suction (kPa), X-Conductivity (m/sec)

Data Point: (0.01, 0.001)
Data Point: (0.018329807, 0.00099489208)
Data Point: (0.033598183, 0.00098487415)
Data Point: (0.061584821, 0.00096535193)
Data Point: (0.11288379, 0.0009275383)
Data Point: (0.20691381, 0.00085540282)
Data Point: (0.37926902, 0.00072330569)
Data Point: (0.6951928, 0.0005062119)
Data Point: (1.274275, 0.00023727745)
Data Point: (2.3357215, 5.5710998e-005)
Data Point: (4.2813324, 6.2026459e-006)
Data Point: (7.8475997, 4.4007717e-007)
Data Point: (14.384499, 2.6238027e-008)
Data Point: (26.366509, 1.482164e-009)

Data Point: (48.329302, 8.2438255e-011)
Data Point: (88.586679, 4.565279e-012)
Data Point: (162.37767, 2.5251018e-013)
Data Point: (297.63514, 1.3961864e-014)
Data Point: (545.55948, 7.7191068e-016)
Data Point: (1000, 4.2675569e-017)

Estimation Properties

Volume Water Content Function: Kamenitopísčítá suť
Hydraulic K Sat: 0.001 m/sec
Hyd. K-Function Estimation Method: Van Genuchten Function
Maximum: 1000
Minimum: 0.01
Num. Points: 20
Residual Water Content: 0.01 m³/m³

Náplavové hlíny

Model: Data Point Function
Function: X-Conductivity vs. Pore-Water Pressure
Curve Fit to Data: 100 %
Segment Curvature: 100 %
K-Saturation: 1e-005
Data Points: Matric Suction (kPa), X-Conductivity (m/sec)
Data Point: (0.01, 1e-005)
Data Point: (0.018329807, 9.9963109e-006)
Data Point: (0.033598183, 9.9886948e-006)
Data Point: (0.061584821, 9.9730303e-006)
Data Point: (0.11288379, 9.9408064e-006)
Data Point: (0.20691381, 9.8745336e-006)
Data Point: (0.37926902, 9.738545e-006)
Data Point: (0.6951928, 9.4606816e-006)
Data Point: (1.274275, 8.8992137e-006)
Data Point: (2.3357215, 7.7994861e-006)
Data Point: (4.2813324, 5.8224833e-006)
Data Point: (7.8475997, 3.0305768e-006)
Data Point: (14.384499, 7.9387283e-007)
Data Point: (26.366509, 9.0435138e-008)
Data Point: (48.329302, 5.9807222e-009)
Data Point: (88.586679, 3.1966495e-010)
Data Point: (162.37767, 1.6026181e-011)
Data Point: (297.63514, 7.894175e-013)
Data Point: (545.55948, 3.8702202e-014)
Data Point: (1000, 1.8950517e-015)

Estimation Properties

Volume Water Content Function: Stabilizační část_střed
Hydraulic K Sat: 1e-005 m/sec
Hyd. K-Function Estimation Method: Van Genuchten Function
Maximum: 1000
Minimum: 0.01
Num. Points: 20
Residual Water Content: 0.1 m³/m³

Podložní šterky

Model: [Data Point Function](#)

Function: [X-Conductivity vs. Pore-Water Pressure](#)

Curve Fit to Data: 100 %

Segment Curvature: 100 %

K-Saturation: 0.0001

Data Points: [Matric Suction \(kPa\), X-Conductivity \(m/sec\)](#)

Data Point: (0.01, 0.0001)

Data Point: (0.018329807, 9.9963109e-005)

Data Point: (0.033598183, 9.9886948e-005)

Data Point: (0.061584821, 9.9730303e-005)

Data Point: (0.11288379, 9.9408064e-005)

Data Point: (0.20691381, 9.8745336e-005)

Data Point: (0.37926902, 9.738545e-005)

Data Point: (0.6951928, 9.4606816e-005)

Data Point: (1.274275, 8.8992137e-005)

Data Point: (2.3357215, 7.7994861e-005)

Data Point: (4.2813324, 5.8224833e-005)

Data Point: (7.8475997, 3.0305768e-005)

Data Point: (14.384499, 7.9387284e-006)

Data Point: (26.366509, 9.0435138e-007)

Data Point: (48.329302, 5.9807222e-008)

Data Point: (88.586679, 3.1966495e-009)

Data Point: (162.37767, 1.6026181e-010)

Data Point: (297.63514, 7.8941748e-012)

Data Point: (545.55948, 3.8702201e-013)

Data Point: (1000, 1.8950516e-014)

Estimation Properties

Volume Water Content Function: [Stabilizační část_střed](#)

Hydraulic K Sat: 0.0001 m/sec

Hyd. K-Function Estimation Method: [Van Genuchten Function](#)

Maximum: 1000

Minimum: 0.01

Num. Points: 20

Residual Water Content: 0.1 m³/m³

Vol. Water Content Functions

Stabilizační část_střed

Model: [Data Point Function](#)

Function: [Vol. Water Content vs. Pore-Water Pressure](#)

Curve Fit to Data: 100 %

Segment Curvature: 100 %

Mv: 0 /kPa

Porosity: 0.38999871

Data Points: [Matric Suction \(kPa\), Vol. Water Content \(m³/m³\)](#)

Data Point: (0.01, 0.38999871)

Data Point: (0.018329807, 0.38999673)

Data Point: (0.033598183, 0.38999163)

Data Point: (0.061584821, 0.38997828)

Data Point: (0.11288379, 0.3899432)
Data Point: (0.20691381, 0.38985058)
Data Point: (0.37926902, 0.3896054)
Data Point: (0.6951928, 0.38895623)
Data Point: (1.274275, 0.38724316)
Data Point: (2.3357215, 0.38277617)
Data Point: (4.2813324, 0.37150368)
Data Point: (7.8475997, 0.34529278)
Data Point: (14.384499, 0.29438824)
Data Point: (26.366509, 0.22232097)
Data Point: (48.329302, 0.15340109)
Data Point: (88.586679, 0.10496306)
Data Point: (162.37767, 0.075024726)
Data Point: (297.63514, 0.056428831)
Data Point: (545.55948, 0.04417144)
Data Point: (1000, 0.035488103)

Estimation Properties

Vol. WC Estimation Method: [Sample functions](#)
Sample Material: [Silt](#)
Saturated Water Content: 0.39 m³/m³
Liquid Limit: 0 %
Diameter at 10% passing: 0
Diameter at 60% passing: 0
Maximum: 1000
Minimum: 0.01
Num. Points: 20

Jádro

Model: [Data Point Function](#)

Function: [Vol. Water Content vs. Pore-Water Pressure](#)

Curve Fit to Data: 100 %
Segment Curvature: 100 %
Mv: 0 /kPa

Porosity: 0.27999964

Data Points: [Matric Suction \(kPa\)](#), [Vol. Water Content \(m³/m³\)](#)

Data Point: (0.01, 0.27999964)
Data Point: (0.018329807, 0.27999921)
Data Point: (0.033598183, 0.27999825)
Data Point: (0.061584821, 0.27999601)
Data Point: (0.11288379, 0.27999079)
Data Point: (0.20691381, 0.27997844)
Data Point: (0.37926902, 0.27994893)
Data Point: (0.6951928, 0.27987795)
Data Point: (1.274275, 0.27970629)
Data Point: (2.3357215, 0.2792902)
Data Point: (4.2813324, 0.27828312)
Data Point: (7.8475997, 0.27586887)
Data Point: (14.384499, 0.27023613)
Data Point: (26.366509, 0.25791949)
Data Point: (48.329302, 0.23440889)
Data Point: (88.586679, 0.19890017)
Data Point: (162.37767, 0.15923047)

Data Point: (297.63514, 0.12521336)
Data Point: (545.55948, 0.099877827)
Data Point: (1000, 0.081417897)

Estimation Properties

Vol. WC Estimation Method: [Sample functions](#)
Sample Material: [Clay](#)
Saturated Water Content: 0.28 m³/m³
Liquid Limit: 0 %
Diameter at 10% passing: 0
Diameter at 60% passing: 0
Maximum: 1000
Minimum: 0.01
Num. Points: 20

Stabilizační část

Model: [Data Point Function](#)
Function: [Vol. Water Content vs. Pore-Water Pressure](#)
Curve Fit to Data: 100 %
Segment Curvature: 100 %
Mv: 0 /kPa

Porosity: 0.39910622

Data Points: [Matric Suction \(kPa\)](#), [Vol. Water Content \(m³/m³\)](#)

Data Point: (0.01, 0.39999977)
Data Point: (0.018329807, 0.39999958)
Data Point: (0.033598183, 0.39999922)
Data Point: (0.061584821, 0.39999828)
Data Point: (0.11288379, 0.39999017)
Data Point: (0.20691381, 0.39982631)
Data Point: (0.37926902, 0.39610309)
Data Point: (0.6951928, 0.3320745)
Data Point: (1.274275, 0.1478533)
Data Point: (2.3357215, 0.076579501)
Data Point: (4.2813324, 0.051510274)
Data Point: (7.8475997, 0.039016734)
Data Point: (14.384499, 0.031503611)
Data Point: (26.366509, 0.026466675)
Data Point: (48.329302, 0.02283859)
Data Point: (88.586679, 0.020083249)
Data Point: (162.37767, 0.017896675)
Data Point: (297.63514, 0.016087135)
Data Point: (545.55948, 0.014520336)
Data Point: (1000, 0.013093848)

Estimation Properties

Vol. WC Estimation Method: [Sample functions](#)
Sample Material: [Gravel](#)
Saturated Water Content: 0.4 m³/m³
Liquid Limit: 0 %
Diameter at 10% passing: 0
Diameter at 60% passing: 0
Maximum: 1000
Minimum: 0.01
Num. Points: 20

Filtr

Model: [Data Point Function](#)

Function: [Vol. Water Content vs. Pore-Water Pressure](#)

Curve Fit to Data: [100 %](#)

Segment Curvature: [100 %](#)

Mv: [0 /kPa](#)

Porosity: [0.30999555](#)

Data Points: [Matric Suction \(kPa\), Vol. Water Content \(m³/m³\)](#)

Data Point: [\(0.01, 0.30999555\)](#)

Data Point: [\(0.018329807, 0.30998568\)](#)

Data Point: [\(0.033598183, 0.30995352\)](#)

Data Point: [\(0.061584821, 0.3098485\)](#)

Data Point: [\(0.11288379, 0.30950542\)](#)

Data Point: [\(0.20691381, 0.30838817\)](#)

Data Point: [\(0.37926902, 0.3047952\)](#)

Data Point: [\(0.6951928, 0.29370669\)](#)

Data Point: [\(1.274275, 0.26343154\)](#)

Data Point: [\(2.3357215, 0.20234949\)](#)

Data Point: [\(4.2813324, 0.12917666\)](#)

Data Point: [\(7.8475997, 0.077595374\)](#)

Data Point: [\(14.384499, 0.049631887\)](#)

Data Point: [\(26.366509, 0.034594731\)](#)

Data Point: [\(48.329302, 0.02581299\)](#)

Data Point: [\(88.586679, 0.020218221\)](#)

Data Point: [\(162.37767, 0.01638568\)](#)

Data Point: [\(297.63514, 0.013597489\)](#)

Data Point: [\(545.55948, 0.011457269\)](#)

Data Point: [\(1000, 0.0097276244\)](#)

Estimation Properties

Vol. WC Estimation Method: [Sample functions](#)

Sample Material: [Sand](#)

Saturated Water Content: [0.31 m³/m³](#)

Liquid Limit: [20 %](#)

Diameter at 10% passing: [0.5](#)

Diameter at 60% passing: [6](#)

Maximum: [1000](#)

Minimum: [0.01](#)

Num. Points: [20](#)

Kamenitopísčitá suť

Model: [Data Point Function](#)

Function: [Vol. Water Content vs. Pore-Water Pressure](#)

Curve Fit to Data: [100 %](#)

Segment Curvature: [100 %](#)

Mv: [0 /kPa](#)

Porosity: [0.38999441](#)

Data Points: [Matric Suction \(kPa\), Vol. Water Content \(m³/m³\)](#)

Data Point: [\(0.01, 0.38999441\)](#)

Data Point: [\(0.018329807, 0.38998199\)](#)

Data Point: [\(0.033598183, 0.38994152\)](#)

Data Point: [\(0.061584821, 0.3898094\)](#)

Data Point: (0.11288379, 0.38937779)
 Data Point: (0.20691381, 0.38797222)
 Data Point: (0.37926902, 0.38345202)
 Data Point: (0.6951928, 0.36950197)
 Data Point: (1.274275, 0.33141387)
 Data Point: (2.3357215, 0.25456871)
 Data Point: (4.2813324, 0.16251257)
 Data Point: (7.8475997, 0.097619986)
 Data Point: (14.384499, 0.062440116)
 Data Point: (26.366509, 0.043522404)
 Data Point: (48.329302, 0.032474407)
 Data Point: (88.586679, 0.025435827)
 Data Point: (162.37767, 0.020614242)
 Data Point: (297.63514, 0.017106519)
 Data Point: (545.55948, 0.014413984)
 Data Point: (1000, 0.012237979)

Estimation Properties

Vol. WC Estimation Method: [Sample functions](#)

Sample Material: [Sand](#)

Saturated Water Content: 0.39 m³/m³

Liquid Limit: 0 %

Diameter at 10% passing: 0

Diameter at 60% passing: 0

Maximum: 1000

Minimum: 0.01

Num. Points: 20

Regions

	Material	Points	Area (m ²)
Region 1	Kamenná sypanina	1,2,3,4,5,6,7,8,9,26,10,11,12	174.53913
Region 2	Zemina z výkopů	12,11,13,14,15,16	30.779267
Region 3	Zemina z výkopů	17,18,19,21,20,27	114.99811
Region 4	Filtry	5,21,19,22,23,24,25,26,9,8,7,6	6.222914
Region 5	Kamenitopísčítá suť	26,25,13,11,10	11.434895
Region 6	Filtry	17,27,3,2,28	6.772332
Region 7	Kamenitopísčítá suť	3,27,20,21,5,4	17.23366
Region 8	Těsnící jádro_jílovitá hlína	18,29,54,30,31,32,33,34,35,57,36,37,38,39,40,41,1,2,28,17	216.73576

Regio n 9	Filtrý	37,42,43,44,45,46,47,38	65.35304
Regio n 10	Beton	33,34,48,49,31,32	3.9
Regio n 11	Beton	47,38,39,40,50,51,52,53	2.2527751
Regio n 12	Náplavová hlína v podloží hráze	29,54,55,66,56,15,14,13,25,24,23,22,19,18	158.56893
Regio n 13	Náplavová hlína v podloží hráze	57,58,59,43,42,37,36	52.516449
Regio n 14	Hlinité štěrky	35,60,58,57	70.502041
Regio n 15	Hlinité štěrky	54,30,61,55	194.9077
Regio n 16	Jílovce, slínovce, pískovce	64,62,60,35,34,48	214.97947
Regio n 17	Jílovce, slínovce, pískovce	65,63,61,30,31,49	509.23085
Regio n 18	Injekční clona	48,49,65,64	7.878555

Lines

	Start Point	End Point	Hydraulic Boundary
Line 1	1	2	
Line 2	2	3	
Line 3	3	4	
Line 4	4	5	
Line 5	5	6	
Line 6	6	7	
Line 7	7	8	
Line 8	8	9	
Line 9	10	11	
Line 10	11	12	
Line 11	12	1	
Line 12	11	13	
Line 13	13	14	

Line 14	14	15	
Line 15	15	16	
Line 16	16	12	
Line 17	17	18	
Line 18	5	21	
Line 19	21	19	
Line 20	19	22	
Line 21	22	23	
Line 22	23	24	Zero Pressure
Line 23	24	25	
Line 24	25	26	
Line 25	26	9	
Line 26	25	13	
Line 27	10	26	
Line 28	17	27	
Line 29	27	3	
Line 30	2	28	
Line 31	28	17	
Line 32	27	20	
Line 33	20	21	
Line 34	18	29	
Line 35	30	31	
Line 36	31	32	
Line 37	32	33	
Line 38	33	34	
Line 39	34	35	
Line 40	36	37	
Line 41	37	38	
Line 42	38	39	
Line 43	39	40	
Line 44	40	41	
Line 45	41	1	
Line 46	37	42	
Line 47	42	43	
Line 48	43	44	MBH=285,55
Line 49	44	45	MBH=285,55
Line 50	45	46	MBH=285,55
Line 51	46	47	MBH=285,55

Line 52	47	38	
Line 53	34	48	
Line 54	49	31	
Line 55	40	50	
Line 56	50	51	
Line 57	51	52	
Line 58	52	53	
Line 59	53	47	
Line 60	29	54	
Line 61	56	15	
Line 62	57	58	
Line 63	58	59	
Line 64	59	43	MBH=285,55
Line 65	36	57	
Line 66	35	60	
Line 67	60	58	
Line 68	57	35	
Line 69	54	30	
Line 70	61	55	
Line 71	62	60	
Line 72	63	61	
Line 73	19	18	
Line 74	55	54	
Line 75	61	30	
Line 76	64	62	
Line 77	65	63	
Line 78	48	64	
Line 79	49	65	
Line 80	49	48	
Line 81	65	64	
Line 82	55	66	
Line 83	66	56	

Points

	X (m)	Y (m)	Hydraulic Boundary
Point 1	4.96462	284.18	
Point 2	2.60934	284.18	
Point 3	-3.98521	280.41168	

Point 4	6.03164	274.68777	
Point 5	5.68434	274.08	
Point 6	8.85069	272.27066	
Point 7	11.90135	272.18124	
Point 8	12.93149	271.35713	
Point 9	13.53494	271.35713	
Point 10	14.7122	272.29895	
Point 11	27.73139	271.91736	
Point 12	21.23543	275.41622	
Point 13	29.30281	271.07096	
Point 14	37.73268	270.82389	
Point 15	38.27553	271.25817	
Point 16	28.39482	274.68238	
Point 17	-8.4	278.58	
Point 18	-20.12847	271.87802	
Point 19	8.68321	271.67531	
Point 20	-3.4	278.58	
Point 21	4.475	274.08	
Point 22	11.68321	271.58738	
Point 23	12.93321	270.58738	
Point 24	13.53321	270.58738	
Point 25	14.67365	271.49973	
Point 26	13.74713	271.52689	
Point 27	-7.19066	278.58	
Point 28	1.4	284.18	
Point 29	-23.12847	271.87027	
Point 30	-30.05532	267.25237	
Point 31	-31.05532	267.25237	
Point 32	-31.05532	267.85237	
Point 33	-32.55532	267.85237	
Point 34	-32.55532	267.25237	
Point 35	-33.55532	267.25237	
Point 36	-39.27558	271.82857	
Point 37	-44.35955	271.81544	
Point 38	-2.56742	283.86182	
Point 39	-1.5	283.86182	
Point 40	-1.5	285.44472	
Point 41	2.71846	285.38982	

Point 42	-49.22682	271.80288	
Point 43	-49.78751	272.25143	
Point 44	-34.28751	276.68	
Point 45	-31.28751	276.78	
Point 46	-5.74002	284.10381	
Point 47	-2.56742	285.34542	
Point 48	-32.55532	265.25237	
Point 49	-31.05532	265.25237	
Point 50	-1.5	285.56182	
Point 51	-1.945	285.56179	
Point 52	-1.98563	286.33853	
Point 53	-2.50751	286.33941	
Point 54	-26.14019	269.86246	
Point 55	45.76795	268.58838	
Point 56	45.76795	270.95709	
Point 57	-36.81793	269.86246	
Point 58	-62.19797	269.86246	
Point 59	-62.19797	272.21938	
Point 60	-62.19797	267.25237	
Point 61	45.76795	265.98838	
Point 62	-62.19797	260	
Point 63	45.76795	260	
Point 64	-32.55532	260	
Point 65	-31.05532	260	
Point 66	45.76795	270.3	Zero Pressure